

New claims

1. Contact device for electrical cable with a cable shield comprising an arc-shaped contact part that can be  
5       secured around the sheath of a cable and is provided with contact elements that protrude in a radially inward manner. Each contact element (5) extends to form a point (13) such that during installation in a direction  
10       of impact that is oriented inwards and in an essentially radial manner, said point penetrates the cable sheath (8) and produces an electrical contact with the cable shield (9) **characterized in that** the contact part (3) is formed as a cable clip (6), and that a tooth ring (15) is formed from the edges of the cable clip (3) being bent radially  
15       inward, the teeth (12) of which form the contact elements (5) and which has stops (18) bent radially inward between the teeth which center the cable clamp (6) in the installed state.
  
- 20       2. Contact device according to Claim 1 characterized in that the teeth (12) of the fixed contact clip (6) penetrate the cable sheath (8) such that the electrical contact is produced in an essentially concentric area (14) with respect to the longitudinal axis  
25       of the cable.
  
3. Contact device according to Claim 1 or 2, characterized in that the cable clip (6) is made from a punched and shaped component of sheet metal section.
  
- 30       4. Contact device according to at least one of the Claims 1 to 3 characterized in that the teeth (12) are triangular and the points (13) are arranged at equal distances apart.
  
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5. Contact device according to at least one of the Claims 1 to 4 characterized in that the tooth (12) has a tooth height (H) that is smaller than or equal to the overall thickness D, comprising the thickness (DM) of the cable sheath (8) and the thickness (DS) of the cable shield (9).
6. Contact device according to at least one of the Claims 1 to 5 characterized in that the teeth (12) are arranged on the peripheral side over gaps.
7. Contact device according to at least one of the preceding claims, characterized in that contact part (3) and all the teeth (12) are made from one piece and from the same material, namely metal.
8. Contact device according to at least one of the preceding claims, characterized in that the contact part (3) is coated with a corrosion-resistant material, preferably with tin.
9. Contact device according to at least one of the preceding claims, characterized in that the contact part (3) is manufactured from a corrosion-resistant material.
10. Contact device according to at least one of the preceding claims, characterized in that the contact part (3) has a side separated from the cable (2) with beading or ribbing.
11. Contact device according to at least one of the preceding claims, characterized in that the contact part (3) is secured using a bolt fixing to a plate (11) of an electrical device and the cable shield (9) is electrically connected to the ground potential of the plate.

12. Contact device according to at least one of the preceding claims, characterized in that the contact part (3) is overmolded except for the contact surfaces with a polymer or elastomer materials.

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13. Electrical device, including a plate for module frames which are linked through shielded electrical cable in that at least one cable shield of one of these cables is connected through a contact device in accordance with the present invention to the ground potential of the plate.

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